Anti-Mouse MHC Class II (I-A/I-E) Functional Grade Biotin (To be Discontinued)

Catalog Number: 36-5321
Also known as: MHC II, IA, IE, I-A/E, IA/IE

Staining of C57BL/6 splenocytes with 0.015 ug of Rat IgG2b K Isotype Control Functional Grade Biotin (cat. 36-4031) (open histogram), or 0.015 ug of Anti-Mouse MHC Class II (I-A/I-E) Functional Grade Biotin followed by Streptavidin PE (cat. 12-4317) (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse MHC Class II (I-A/I-E) Functional Grade Biotin (To be Discontinued)

Catalog Number: 36-5321
Clone: M5/114.15.2
Concentration: 0.5 mg/mL
Host/Isotype: Rat IgG2b, kappa
Handling Conditions: Use in sterile environment.
Endotoxin: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: Phosphate buffer pH 7.2, 150 mM NaCl, No sodium azide.
Temperature Limitation: Store at 2-8°C. Do not freeze.
Batch Code: Refer to vial
Use By: Refer to vial

Description
The M5/114.15.2 monoclonal antibody reacts with the mouse major histocompatibility complex class II, both I-A and I-E subregion-encoded glycoproteins (I-A b, I-A d, I-A q, I-E d, I-E k, not I-A f, I-A k, or I-A s). It detects a polymorphic determinant present on B cells, monocytes, macrophages, dendritic cells, and activated T lymphocytes from mice carrying the H-2 b, H-2 d, H-2 q, H-2 p, H-2 r and H-2 u but not from mice carrying the H-2 s or H-2 f haplotypes. The M5/114 mAb is reported to inhibit I-A-restricted T cell responses of the H-2 b, H-2 d, H-2 q, H-2 u but not H-2 f, H-2 k, or H-2 s haplotypes.

Applications Reported
This M5/114.15.2 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistology staining of paraffin embedded tissue sections.

Applications Tested
This M5/114.15.2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.06 μg per test. A test is defined as the amount (μg) of antibody that will stain a cell sample in a final volume of 100 μL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References
Unternaehrer JJ, Chow A, et al. 2007. The tetraspanin CD9 mediates lateral association of MHC class II molecules

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Related Products
12-4317 Streptavidin PE
36-4031 Rat IgG2b K Isotype Control Functional Grade Biotin (Discontinued) (eB149/10H5)